Biochemical Oxygen Demand (BOD) and Carbonaceous Biochemical Oxygen Demand (CBOD)  SM 18 <sup>th</sup> /19 <sup>th</sup> 5210B  Page 1 of 2							
Facility Name:		VELAP ID					
Assessor Name:Analyst Name:	Inspection Date						
Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments		
Records Examined: SOP Number/ Revision/ Date		Analyst:					
Sample ID: Date of Sample Prepare	ration:	·					
Are samples analyzed within two hours of collection or preserved at or below 4°C until time of analysis?	5210B.1.b						
Are samples checked for residual chlorine, and if chlorine is present, are they dechlorinated using the appropriate amount of sodium sulfite (determined by titration as specified in method)?	5210B.4.e.2						
Are samples supersaturated with DO at 20°C aerated or agitated to bring the DO between 7.0 and 9.0 mg/L?	5210B.4.e.4						
Are appropriate concentrations of phosphate buffer, MgSO4, CaCl2, and FeCl3 added to dilution water? (Buffer may be purchased in pre-made buffer pillows, or individual reagents made in the laboratory may be added to dilution water as specified in the method.)	5210B.4.a						
Are samples brought to 20 ± 1°C before making dilutions?	5210B.4.e.5						
For samples containing caustic alkalinity or acidity, is pH of samples verified to be between 6.5 and 7.5 and adjusted accordingly using sulfuric acid solution and/or sodium hydroxide solution as specified in the method?	5210B.4.e.1						
Are several dilutions analyzed for each sample, to produce a residual DO of at least 1.0 mg/L and a DO uptake of at least 2.0 mg/L after 5-day incubation?	5210B.4.f						
Is dilution water saturated with DO by shaking in a partially filled bottle or by aerating?	5210B.4.a						
Is seed added to all samples before final dilution?	5210B.4.f						
Is the appropriate amount of nitrification inhibitor added to CBOD samples prior to filling?	5210B.4.e.6						
Notes/ Comments:							

Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
Are bottles tightly stoppered after replacing any displaced contents with dilution water, and are they water-sealed?	5210B.4.f				
Are bottles incubated for 5 days in the dark at 20 ± 1°C?	5210B.4.i				
Is a glucose-glutamic acid check analyzed with each batch of samples, with an acceptable average range of 198 ± 30.5 mg/L?	5210B.4.c and 5210B.6.a				
Are one or more dilution water blanks analyzed with each batch of samples, with a maximum acceptable value of 0.20 mg/L?	5210B.4.b and 5210B.4.h				
Is a duplicate analyzed with 5 percent or more of samples?	1020B.6				
Are BOD seed controls analyzed using at least several dilutions of seed, with an average seed correction between 0.6 and 1.0 mg/L after 5 days of incubation?	5210B.4.d.2				
Are results calculated using only qualifying data which have a minimum DO depletion of 2.0 mg/L and a residual DO of a least 1.0 mg/L after 5 days of incubation?	5210B.6.a 19 <sup>th</sup> -5210B.5				
Are results calculated and reported according to the method?	5210B.7				
Does the laboratory follow the method-established detection limit of 2 mg/L?	5210B.6.b				
Notes/ Comments:					